

Amendments to the CLAIMS

1-32. (Canceled)

33. (Currently Amended) A method of inducing or enhancing a cytotoxic T cell response against an antigen comprising:

forming a conjugate of the antigen and a monoclonal antibody which binds to the human macrophage mannose receptor (MMR) antigen presenting cells (APCs); and  
contacting the conjugate either *in vivo* or *ex vivo* with antigen presenting cells APCs such that the antigen is internalized, processed and presented to T cells in a manner which induces or enhances a cytotoxic T cell response mediated by both CD4<sup>+</sup> and CD8<sup>+</sup> T cells against the antigen.

34. (Original) The method of claim 33, which further induces or enhances a helper T cell response against the antigen.

35. (Currently Amended) The method of claim 33, wherein the antigen presenting cells are dendritic cells ~~T cell response is mediated by both CD4<sup>+</sup> and CD8<sup>+</sup> T cells.~~

36. (Presently Amended) The method of claim 33, wherein the T cell response is induced through both MHC Class class I and MHC Class class II pathways.

37. (Original) The method of claim 33, wherein the antibody binds to a C-type lectin expressed on human dendritic cells.

38. (Presently Amended) The method of claim 33, wherein the antigen is  $\beta$  human chorionic gonadotropin ( $\beta$ hCG) ~~antibody binds to the human mannose receptor.~~

39. (Original) The method of claim 33, wherein the antibody is selected from the group consisting of human, humanized and chimeric antibodies.

40. **(Original)** The method of claim 33, wherein the antibody is selected from the group consisting of a whole antibody, an Fab fragment and a single chain antibody.

41. **(Currently Amended)** The method of claim 33, wherein the antibody comprises a human heavy chain variable region comprising FR1, CDR1, FR2, CDR2, FR3, CDR3 and FR4 sequences and a human light chain variable region comprising FR1, CDR1, FR2, CDR2, FR3, CDR3 and FR4 sequences, wherein:

(a) the human heavy chain variable region CDR3 sequence comprises SEQ ID NO: 15, and conservative sequence modifications thereof; and

(b) the human light chain variable region CDR3 sequence comprises SEQ ID NO: 18, and conservative sequence modifications thereof.

42. **(Currently Amended)** The method of claim 41, wherein the human heavy chain variable region CDR2 sequence comprises SEQ ID NO: 14, and conservative sequence modifications thereof; and the human light chain variable region CDR2 sequence comprises SEQ ID NO:17, and conservative sequence modifications thereof.

43. **(Currently Amended)** The method of claim 41, wherein the human heavy chain variable region CDR1 sequence comprises SEQ ID NO:13, and conservative sequence modifications thereof; and the human light chain variable region CDR1 sequence comprises SEQ ID NO:16, and conservative sequence modifications thereof.

44. **(Currently Amended)** The method of claim 41, wherein the antibody comprises human heavy chain and human light chain variable regions comprising the amino acid sequences shown in SEQ ID NO:4 and SEQ ID NO:8, respectively, or conservative sequence modifications thereof ~~an amino acid sequence that is sufficiently homologous to SEQ ID NO:4 or SEQ ID NO:8 such that the antibody retains the ability to bind to dendritic cells.~~

45. **(Original)** The method of claim 33, wherein the antigen is expressed by a tumor cell or a pathogenic organism.

46. **(Original)** The method of claim 33, wherein the antigen is selected from the group consisting of  $\beta$ hCG, Gp100, prostate associated antigen and Pmel-17.

47. **(Currently Amended)** The method of claim 35 33, further comprising contacting the dendritic cells with an adjuvant, a cytokine which stimulates proliferation of dendritic cells, or an immunostimulatory agent.

48. **(Original)** The method of claim 33, wherein the conjugate is administered *in vivo* to a subject.

49. **(Original)** The method of claim 48, wherein the subject is immunized against the antigen.

50. **(New)** A method of inducing or enhancing a T cell-mediated immune response against an antigen, comprising contacting a molecular conjugate comprising a monoclonal antibody that binds to the human macrophage mannose receptor (MMR) linked to the antigen, with antigen presenting cells such that the antigen is processed and presented to T cells in a manner which induces or enhances a T cell-mediated response mediated by both CD4<sup>+</sup> and CD8<sup>+</sup> T cells against the antigen.

51. **(New)** The method of claim 50, wherein the T cell response is mediated by cytotoxic T cells and/or helper T cells.

52. **(New)** The method of claim 50, wherein the T cell response is induced by cross-presentation of the antigen to T cells through both MHC Class I and MHC Class II pathways.

53. **(New)** The method of claim 50, wherein the antigen is expressed by a tumor cell.

54. **(New)** The method of claim 53, wherein the tumor cell is selected from the group consisting of colon, lung, pancreas, breast, ovary, and germ cell derived tumor cells.

55. **(New)** The method of claim 50, wherein the molecular conjugate is contacted with the dendritic cells *in vivo*.

56. **(Original)** The method of claim 50, wherein the molecular conjugate is contacted with the dendritic cells *ex vivo*.

57. **(Original)** The method of claim 50, further comprising contacting the dendritic cells with a cytokine which stimulates proliferation of dendritic cells, optionally GM-CSF or FLT3-L.

58. **(New)** The method of claim 50, further comprising contacting the dendritic cells with an immunostimulatory agent, optionally an antibody against CTLA-4.

59. **(New)** A method of immunizing a subject comprising administering a molecular conjugate comprising a monoclonal antibody that binds to the human macrophage mannose receptor (MMR) linked to an antigen, in combination with an adjuvant and a cytokine which stimulates proliferation of dendritic cells or an immunostimulatory agent, such that the molecular conjugate induces or enhances a cytotoxic T cell response mediated by both CD4<sup>+</sup> and CD8<sup>+</sup> T cells against the antigen.